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FEDERAL COMMUNICATIONS COMMISSION OFFICE OF THE SECRETARY

November 18, 1993

**David J Hatton** 

Director - Federal Regulatory Accounting

### **EX PARTE**

William F. Caton Acting Secretary Federal Communications Commission 1919 M Street, N.W., - Room 222 Washington, DC 20554

> CC Docket No. 88-57 DA 93-1343 RM No. 8380, RE:

CC Docket No. 92-260

Dear Mr. Caton:

Today, Mr. A. Trinchese, Ms. D. Haraldson and I, representing the NYNEX Telephone Companies, met with Mr. William Kehoe, Attorney, Accounting and Audits Division of the Common Carrier Bureau, to discuss issues in the above referenced proceedings.

A copy of materials used in the presentation is attached.

Please address any questions in this matter to my attention.

Sincerely,

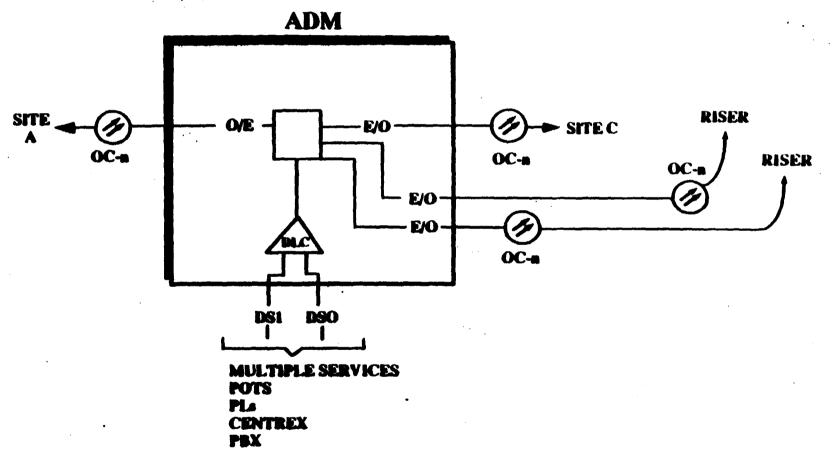
Attachment

cc: W. Kehoe

**ADM = ADD/DROP MULTIPLEXER** 

### **CURRENT VIEW OF NETWORK TECHNOLOGY EVOLUTION**

### A CLOSER LOOK AT THE ADM



(NOTE: SIMPLIFIED FOR DISCUSSION PURPOSES)

DLC = DIGITAL LOOP CARRIER
OC = OPTICAL CARRIER

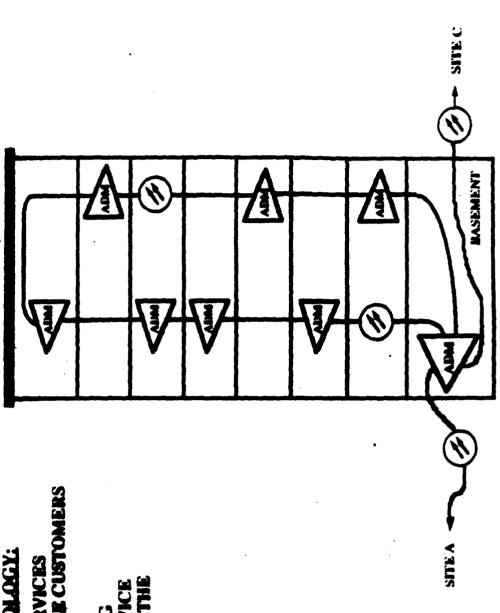
AT-9/24/93-2

# CURRENT VIEW OF NETWORK TECHNOLOGY EVOLUTION

EXTENDING THE TECHNOLOGY:

(SITE B)

- DELIVER MULTIPLE SERVICES
  TO SINGLE OR MULTIPLE CUSTOMERS
- · BENEFITS:
- FASTER PROVISIONING
- MORE RELIABLE SERVICE EXTENDING FIBER TO THE CUSTOMER

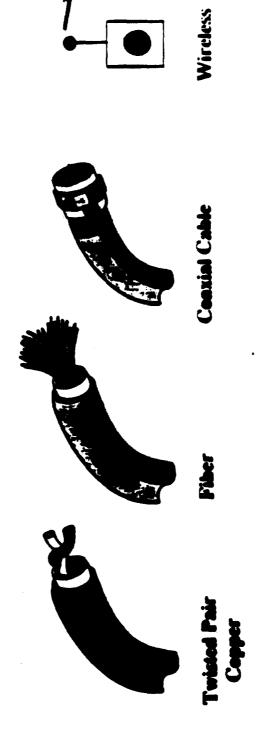


AT-9/24/93-3

### LOCAL LOOP EVOLUTION

- Telesector Resources Group

## TRANSMISSION MEDIUM OPTIONS



- Telesector Resources Group -

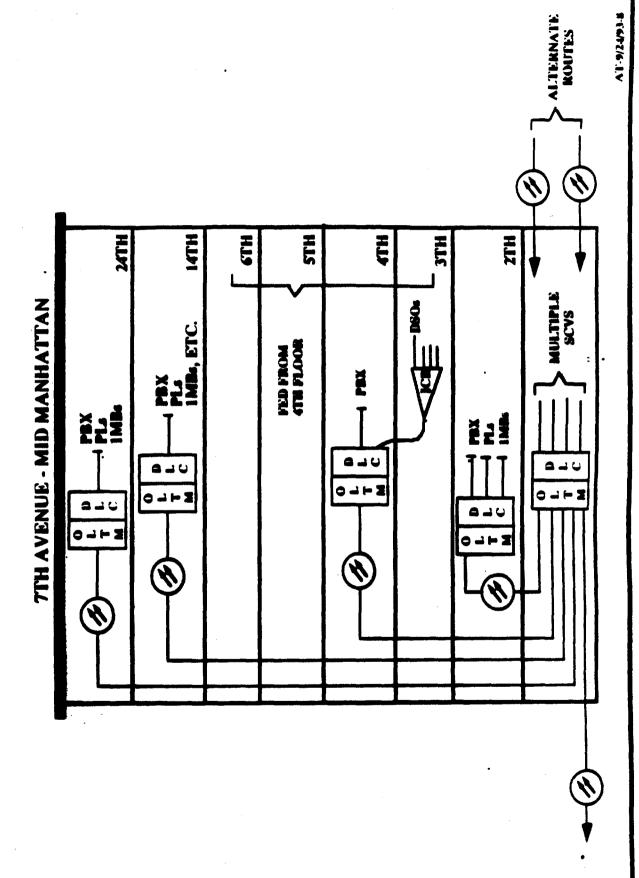
## CURRENT VIEW OF NETWORK TECHNOLOGY

MULTI-STORY / MULTI-UNIT RESIDENTIAL BUILDING ISTH FIL. 2ND FL. 14TH FL. CTH FL. BASEMENT A'1-9/24/934

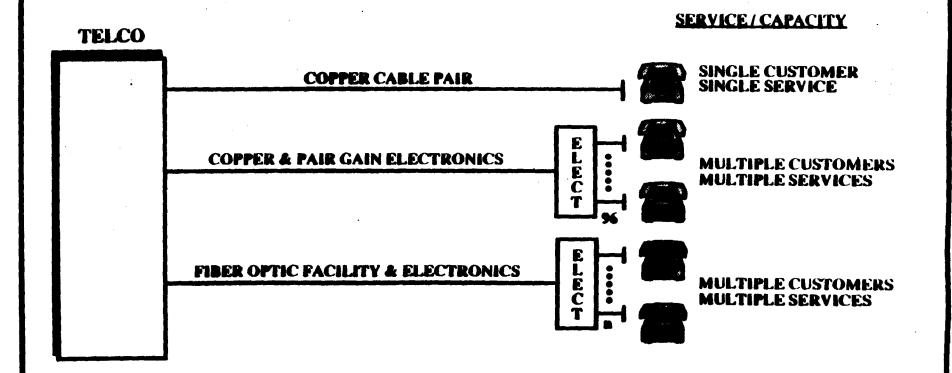
### ADVANTAGES OF TAKING FIBER TO THE CUSTOMER

- HIGH CAPACITY
- VERY SECURE
- NONCORROSIVE
- RELATIVELY LOW COST
- MINIMAL POWER REQUIREMENTS
- INSENSITIVE TO ELECTROMAGNETIC INTERFERENCE

## NETWORK TECHNOLOGY - WHERE WE ARE TODAY

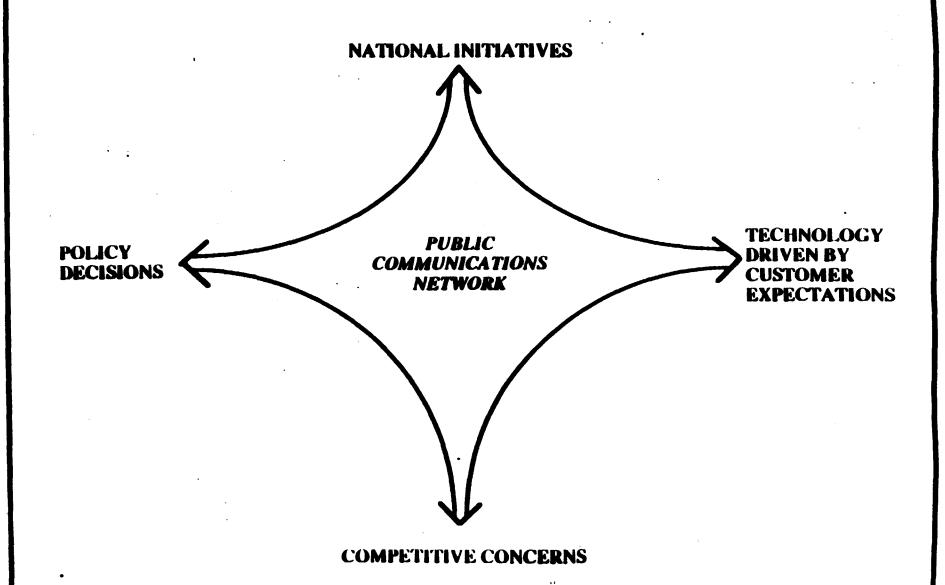


### THE EVOLUTION OF TRANSMISSION MEDIUM



**n** = FIBER CAPACITY A RESULT OF CURRENT ELECTRONIC CAPABILITIES

### FORCES IMPACTING THE PUBLIC NETWORK



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- NATIONAL INITIATIVES
  - NATIONAL INFORMATION INFRASTRUCTURE "THE INFORMATION AGE"
- TECHNOLOGY / CUSTOMER EXPECTATIONS
  - RELIABLE
  - ACCESSIBLE & SECURE
  - BANDWIDTH RICH
  - INTELLIGENT
  - -INTERACTIVE
  - UBIQUITOUS
  - AFFORDABLE

### FORCES IMPACTING THE PUBLIC NETWORK

- **COMPETITIVE CONCERNS** 
  - INCONSISTENT DEMARCATION POINTS
    - . CABLE
    - . VDT ??
    - . TELEPHONY
      - LECs
      - CAPs

### **POLICY DECISIONS**

- PAST POLICY DECISIONS
  - MULTIPLEXER EXCEPTION
  - WAIVER OF NETWORK LOOPBACK TESTING
- IXC PROVISIONING / MFJ ISSUES
- MO&O ON EDS FIBER PETITION

### ISSUES TO BE CONSIDERED

- WHO IS THE CUSTOMER?
  - THE BUILDING OWNER
  - THE CABLE / WIRE PROVIDER
  - THE INDIVIDUAL TENANT
  - ALL OF THE ABOVE
- WHAT IS THE SERVICE?
  - SERVICE DELIVERED BY THE REGULATED TELCO WILL DIFFER DEPENDING ON CUSTOMER / SERVICE
- WHO IS RESPONSIBLE FOR:
  - TESTING THE SERVICE?
  - TESTING TO WHAT POINT?
  - RESTORATION OF SERVICE? (TIMING, CHARGES, DISPUTES)
- STATE REGULATORY CONCERNS
- UNIVERSAL SERVICE PROVIDER RESPONSIBILITY

### ISSUES TO BE CONSIDERED (CONTINUED)

### SECURITY / RELIABILITY

- IMPACT OF COMPETITING "CUSTOMERS" HAVING ACCESS
- POTENTIAL PROBLEMS RESULTING FROM:
  - CUSTOMER ERROR
  - ATTEMPTING REPAIR
  - DELIBERATE TAMPERING
- WHO CONTROLS ACCESS TO LOCATION?
  - MULTIPLE PARTY ACCESS AS OPPOSED TO LIMITED NUMBER OF SERVICE PROVIDERS
- ADVANCED TECHNOLOGIES REQUIRE CONSIDERATION OF SECURITY / RELIABILITY

### **NETWORK RELIABILITY**

- ELECTRONICS ARE NECESSARY IN NETWORK OF TODAY AND TOMORROW
- SECURITY OF ELECTRONICS IS ESSENTIAL FOR RELIABLE SERVICE
- CONFINING ELECTRONICS TO THE BASEMENT IS NOT IN THE PUBLIC INTEREST
  - DECEMBER 1992 STORMS WATER IN THE BASEMENT

### BASEMENT EQUIPMENT DAMAGED:

SERVICE MAINTAINED DISTRIBUTED EQUIPMENT

- 127 JOHN STREET

- 127 JOHN STREET, 15TH FLOOR

- 125 BROAD STREET

- 185 BROAD STREET, FLOORS 2, 7 & 8

- 77 WATER STREET

- 77 WATER STREET, 13TH FLOOR

- 22 PINE STREET
- 120 WALL STREET
- 90 WEST STREET
- AT MINIMUM FOCUS SHOULD BE ON CENTRAL POINTS OF DISTRIBUTION

### FURTHER ACTION DOES NOT APPEAR NECESSARY

- EXISTING RULES PROVIDE FOR BUILDING OWNERS / OTHER PROVIDERS TO COMPETE
  - STS
  - CAPs
  - CABLE
  - CUSTOMERS

### **ACTION FOR CONSIDERATION**

- HOUSE AND RISERS USED TO TERMINATE PAIR GAIN SYSTEMS WOULD BE EXCLUDED
- FIBER OPTIC FACILITIES WOULD BE EXCLUDED
- PROVISIONING OF SERVICES TO IXCs WOULD BE EXCLUDED
- CONSISTENT DEMARCATION POINTS ESTABLISHED
- PREEMPT STATE REGULATION

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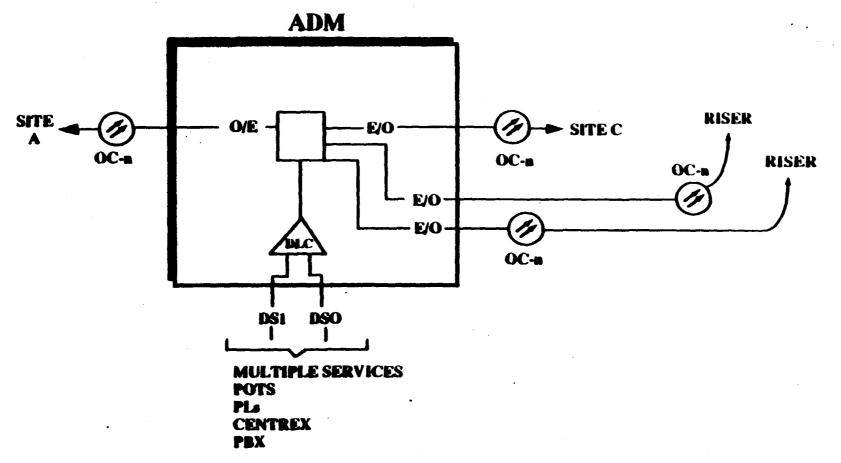
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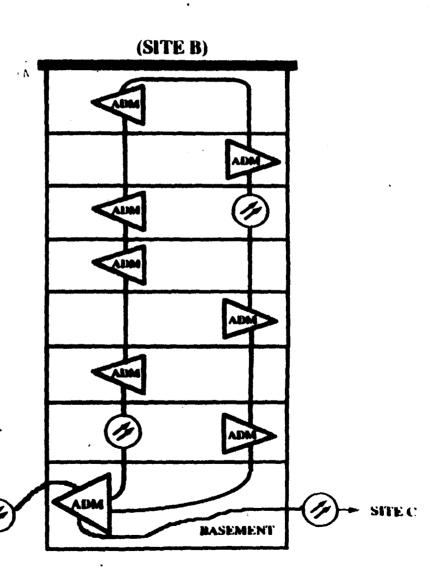
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